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# Space Modernization Strategy

By Karen Oliver

**I**n the Army Space community, several of the stakeholders such as the signal, intelligence and engineer communities work their own separate set of priorities. When these priorities reach the Joint community, they arrive piecemeal and without a single voice that says this is the priority for the Army in Space. The development of a Space Modernization Strategy grew out of this need for the Army Space community to clearly articulate Army priorities for Space capabilities and how these capabilities will enhance the ability of the Objective Force across the full spectrum of future conflicts. The goal of the Space Modernization Strategy is to identify and prioritize current and future Space capabilities that will support Objective Force requirements and provide critical Space support to the Warfighter. The Objective Force will not only exploit current, planned and programmed Space systems, but evolving Objective Force requirements will also help shape the design of future Space systems and their architectures.

The Space Modernization Strategy is based on an integrated approach that reflects the commonality of Space interests and efforts found among Training and Doctrine Command (TRADOC) proponent schools and centers, and the U.S. Army Space and Missile Defense Command (SMDC). The role of SMDC, as the Army's proponent for Space, is to integrate research, development and acquisition efforts, modernization strategies and master plans into a single Army strategy that eliminates duplication of effort in leveraging Space capabilities and allows the Army Space community to speak with one voice within the Army as well as in Joint and national forums.

The foundation of the integrated strategy is constructed

of documents such as the 2002 Army Modernization Plan, Army Space Master Plan, Objective Force concepts and goals, Objective Force unit of action, Objective Force unit of employment, the former CINCSPACE Integrated Priority List, Defense Planning Guidance, Quadrennial Defense Review, Army Transformation and TRADOC seminar wargames, lessons learned and proponent modernization plans. The Space Modernization Strategy was developed through an analysis of key documents that included the March 2002 draft TRADOC Objective Force Capabilities, November 2001 CINCSPACE Integrated Priority List, August 2001 Defense Planning Guidance and the 2001 Quadrennial Defense Review. After analyzing these documents from a standard mission approach, we identified the specified and implied Space tasks from each document and compared them with the Space capabilities that were projected to reach maturity within the next 10 years. The results were placed into seven Space operational areas: satellite communications; intelligence, surveillance and reconnaissance; blue force tracking; missile warning; Space control: position, navigation and timing; and weather, terrain and environmental monitoring.

Space operation areas were then prioritized on the basis of their support of Joint Space priorities, how they reflected the Space priorities identified in the key documents named above, and the frequency with which they satisfied draft TRADOC Objective Force Capabilities. Figure 1 displays how each of the principal inputs to the strategy addressed the seven Space operation areas. For example, satellite communications was a high priority in the Integrated Priority List, Quadrennial Defense Review and Defense Planning

